

React Ecosystem

React Workshop - P4

Agenda: -

- React Router
- Axios

React Router

- Library to add client side routing
- Key components
 - Browser Router
 - Link
 - Switch
 - Router
- Programmatic route change
 - 'useHistory' hook

```
return (
  <ContactProvider>
    <Router>
      <div>
        <nav>
          <ul>
            <li>
              <Link to="/">Contact List</Link>
            </li>
            <li>
              <Link to="/add">Add Contact</Link>
            </li>
          </ul>
        </nav>

        <Switch>
          <Route path="/add">
            <ContactForm></ContactForm>
          </Route>
          <Route path="/">
            <ContactList></ContactList>
          </Route>
        </Switch>
      </div>
    </Router>
  </ContactProvider>
);
```

Axios

- Promise based HTTP client for the browser and node.js
- Make XMLHttpRequests from the browser
- [Intercept request and response](#)
- Key APIs
 - axios(url[, [config](#)])
 - axios.request(config)
 - axios.get(url[, config])
 - axios.post(url[, data[, config]])
 - axios.put(url[, data[, config]])

How to load data from server ?

- 'useEffect' Hook
- By using this Hook, you tell React that your component needs to do something after render
- Similar to componentDidMount
- Applications
 - Data fetching
 - Setting up a subscription
 - Manually changing the DOM in React components

Things we missed out...

- Redux – React Redux
- Styling - Material UI, Tailwind CSS
- Unit Testing – Jest & Enzyme/React Testing Library

Final Project

- Complete Contact Management Application
 - Contact Listing Page: Listing with Edit, Delete action buttons
 - Add Contact Page
 - Edit Contact Page
- Application should be integrated with the API Server provided or with your own implementation